



HACK CRAFT

3.0

PROBLEM STATEMENTS

THEMES

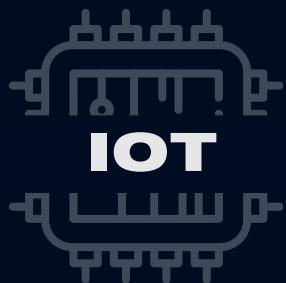
HEALTHCARE



FINANCE



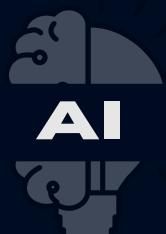
IOT



CYBERSECURITY



AI



WEB 3



AI THEME:

AIP01: Context-Aware Academic & Research Knowledge Extraction

Educational institutions struggle to transform vast amounts of research papers, lecture notes, and policy documents into structured, searchable intelligence for decision-making and innovation.

AIP02: Early Detection of Online Behavioral Risk Patterns

Digital platforms lack proactive systems to detect early signals of harmful or high-risk behavior patterns across user-generated content.

AIP03: AI-Driven Energy Demand Forecasting for Micro-Communities

Digital platforms lack proactive systems to detect early signals of harmful or high-risk behavior patterns across user-generated content.

AIP04: Real-Time Multilingual Public Communication Intelligence

Governments and organizations struggle to analyze multilingual public grievances, feedback, and social sentiment at scale.

AIP05 (Alactic AGI Integrated): Automated Grounding of Unstructured Research Data for Domain-Specific LLMs

AI startups and research labs face major bottlenecks in converting scattered PDFs, reports, URLs, and documentation into structured, high-quality datasets suitable for fine-tuning domain-specific large language models. A scalable and secure data ingestion architecture is needed to automate dataset preparation within enterprise cloud environments.

CYBERSECURITY

THEME:

CSP01: Real-Time Detection of Deepfake and AI-Generated Misinformation

The rapid growth of generative AI has increased the spread of synthetic media, creating risks in public trust, elections, and financial systems.

CSP02: Behavioral Anomaly Detection in Financial Transactions

Financial institutions lack adaptive intelligence to detect subtle, evolving fraud patterns in real time.

CSP03: Secure Digital Identity for Public Service Access

Citizens often rely on fragmented authentication systems, increasing vulnerability to identity theft and data breaches.

CSP04: Critical Infrastructure Threat Monitoring

Smart grids, transportation networks, and hospitals lack predictive cyber-threat visibility across interconnected systems.

CSP05 (Alactic AGI Integrated): Automated Intelligence Extraction from Security Incident Reports

Organizations generate thousands of unstructured cybersecurity logs, reports, and vulnerability disclosures daily. The lack of automated structuring and grounding prevents efficient threat intelligence modeling and proactive defense planning.

IOT THEME:

IOTP01: Urban Water Leakage and Distribution Inefficiency Monitoring

Cities lose significant water due to undetected leaks and inefficient distribution networks.

IOTP02: Smart Waste Segregation and Collection Optimization

Urban municipalities face inefficiencies in waste segregation, route planning, and landfill management.

IOTP03: Environmental Air Quality Intelligence in Dense Urban Areas

Localized air quality data remains underutilized for actionable public health alerts.

IOTP04: Cold Chain Monitoring for Perishable Goods in Transit

Temperature fluctuations during transport lead to large-scale losses in food and pharmaceutical supply chains.

IOTP05 (Alactic AGI Integrated): Structuring Multi-Source Sensor Documentation for Scalable IoT Intelligence

Large-scale IoT deployments generate technical manuals, compliance documents, sensor logs, and configuration files in unstructured formats. Converting this heterogeneous documentation into structured datasets for predictive modeling remains a significant challenge.



FINANCE THEME:

FNP01: Financial Inclusion Risk Assessment for Informal Sector Workers

Informal workforce participants lack digital financial footprints, limiting access to credit and insurance products.

FNP02: Real-Time Small Business Cash Flow Volatility Prediction

Small enterprises struggle with unpredictable revenue cycles due to lack of forecasting intelligence.

FNP03: Transparent Public Fund Utilization Tracking

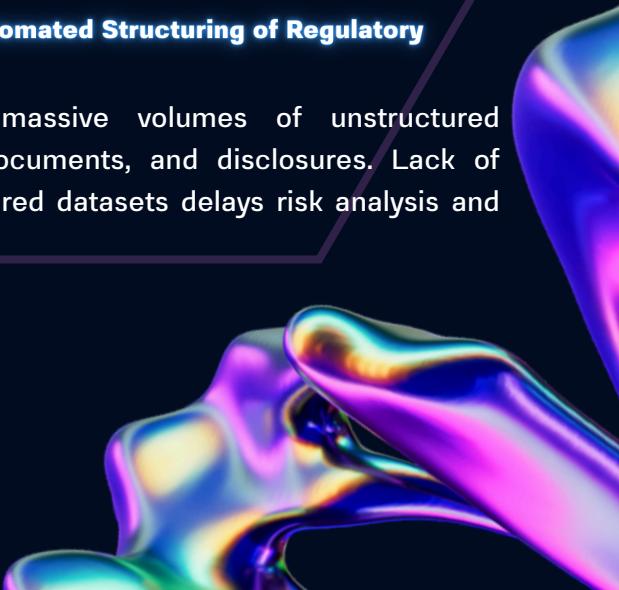
Citizens have limited visibility into allocation and utilization of public development funds.

FNP04: AI-Driven Detection of Insider Trading Signals from Public Data

Regulatory bodies face challenges in correlating news, disclosures, and trading patterns to detect suspicious activity.

FNP05 (Alactic AGI Integrated): Automated Structuring of Regulatory Filings for Risk Modeling

Financial institutions process massive volumes of unstructured regulatory filings, compliance documents, and disclosures. Lack of automated grounding into structured datasets delays risk analysis and regulatory reporting workflows.



HEALTHCARE

THEME:

HCP01: Early Detection of Lifestyle Disease Risk in Urban Populations

Sedentary lifestyles and dietary changes are increasing early-onset chronic conditions without predictive monitoring systems.

HCP02: Rural Diagnostic Accessibility and Telehealth Integration Gaps

Rural communities face delayed diagnosis due to lack of integrated remote health monitoring systems.

HCP03: Hospital Bed and Emergency Resource Allocation Optimization

Hospitals struggle with unpredictable patient inflow and inefficient resource allocation during peak demand.

HCP04: Pharmaceutical Supply Chain Transparency and Counterfeit Prevention

Medicine adulteration and supply chain opacity continue to threaten patient safety.

HCP05 (Alactic AGI Integrated): Clinical Research Data Grounding for Evidence-Based AI Systems

Healthcare institutions accumulate vast unstructured clinical trial reports, case studies, and policy documents. The absence of automated data structuring pipelines limits the development of grounded, domain-specific AI models for diagnostics and decision support.



SHARDEUM'S

SPECIAL WEB3

THEME:

W3P01: Decentralized Academic Credential Verification

Verification of degrees and certifications remains slow, expensive, and prone to fraud.

W3P02: Transparent Agricultural Produce Tracking from Farm to Consumer

Consumers lack visibility into origin, quality, and pricing transparency of agricultural products.

W3P03: Community-Based Decentralized Energy Trading Networks

Local renewable energy producers lack transparent peer-to-peer exchange mechanisms.

W3P04: Tamper-Proof Public Grievance Redressal Systems

Public complaints systems often lack transparency and accountability in resolution tracking.

W3P05 (Alactic AGI Integrated): Decentralized Verification of AI Training Data Provenance

As AI systems increasingly rely on large-scale datasets, ensuring transparent provenance and verifiable integrity of training data remains a critical challenge. There is a need for blockchain-based mechanisms to record dataset lineage, ownership, and validation metadata generated through secure ingestion platforms.

CONTACT US TODAY!

Turn your ideas into impactful innovations — join HackCraft 3.0 and build the future with us!



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